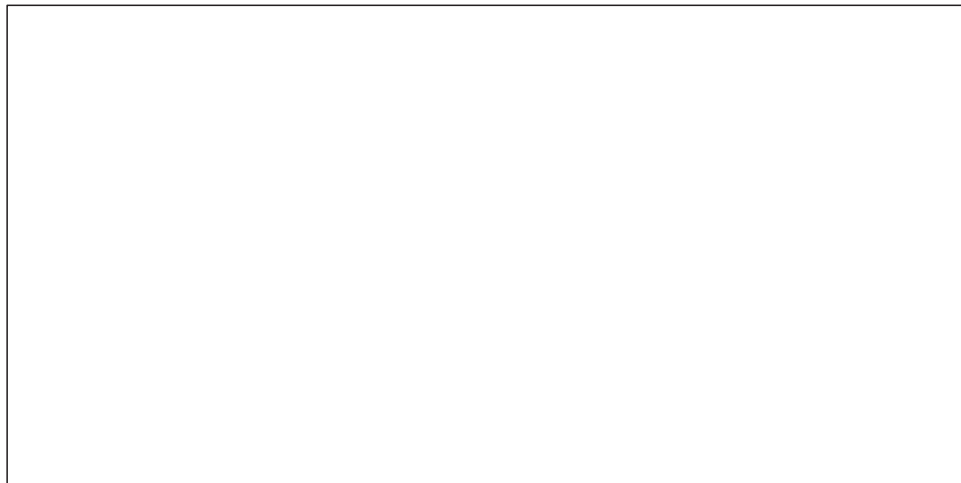


# AUTOMATIC SWING DOOR

## OWNER'S MANUAL

Distributed by:



## Important Installation Instructions

ALL INSTALLATIONS AND SERVICE SHOULD ONLY BE PERFORMED BY TRAINED OR  
AUTHORIZED PERSONS

Warning - To reduce the risk of injury:

1. Carefully Read And Follow All Installation Instructions
2. This unit should only be installed in a rough opening capable of providing proper structural support.
3. Always disconnect the power supply before servicing.



CAUTION



Improperly Adjusted Door  
can cause injury and equipment damage.

Inspect door operation daily using  
safety checklist in owners manual  
and at door.

Have door adjusted as described in Owners Manual.

Safety devices should be in place and operational.

## To Our Customers

The purpose of this manual is to familiarize you with your automatic door system. It is essential that you "know your system" and that you recognize the importance of maintaining your door system in compliance with the industry standards for safety.

It is your responsibility, as owner or caretaker of the equipment, to inspect the operation of your door system on a daily basis to insure that it is safe for use by your customers or employees.

This manual provides you with a description of the operation and maintenance requirements of your door. It also provides the instructions for the Daily Safety Check.

Should the door fail to operate as prescribed in the Daily Safety Check, or at any other time for any other reason, do not attempt to repair or adjust the door. Call a qualified service technician. These technicians are trained to service your door in accordance with applicable industry safety standards.

## Service Availability

DORMA Automatics, Inc. products are distributed through a nationwide network of authorized distributors for sales, installation and service.

## Compliance with Safety Standards

Your door system was designed to the latest operating and safety standards. In order to ensure the continued safe operation of your door, it is important that:

- Your door system be maintained in compliance with the standards of the industry.
- Proper decals and labels be applied and maintained on your doors. If decals are removed or cannot be read, request labels to be replaced when calling for service.

## Electric swing door installation instructions

### Instructions to Installer

We are pleased that a DORMA automatic swing door has been chosen for this installation. DORMA carefully designed, tested and built the door of high quality materials and it will provide many years of service.

Now the door must be installed and adjusted properly to ensure its proper operation and safe use.

To install and adjust the door for proper and safe operation, the installer must carefully read this instruction book before proceeding, then follow the instructions exactly.

The door is designed to be installed only by trained and knowledgeable installers. The installation technician should be experienced in the installation of automatic entrances. They should know all local code requirements and be familiar with the requirements of the current ANSI A156.10 Standards for Power Operated Pedestrian Doors.

After installation, the door must be adjusted to conform with DORMA recommendations and all code requirements. Carefully study the requirements in these instructions.

After installation and adjustment, the installers final responsibility is to properly instruct the owner in the safe use of the door. He must also present the owner with the ED400 Owner's Manual and carefully explain how to perform the daily safety check test.

Each step of the installation, adjustment and instructions are important for proper and safe use of the door being installed. If there are any questions about any items contained in these instructions, call the DORMA Technical Assistance Group for assistance.

## What You Should Know

Be sure that a DORMA Automatics, Inc. distributor has provided the following for each door:

1. Instruction on how to conduct the Daily Safety Check (by walk-through example).
2. Location of function switches and instruction in their use.
3. Circuit breaker or power disconnect location for each door system.
4. Discussion of problems that could result from door being allowed to operate after a malfunction is observed.
5. Number to call for service or questions about your system if you are uncertain of any condition or situation.

**Note:**

If there are any problems, discontinue door operation immediately and secure the door in a safe manner. Call your local authorized DORMA Automatics, Inc. distributor for repair.

## Daily Safety Check

Perform these safety checks daily on each automatic swinging door to insure your customers' safety and your own protection. Perform these tests while traffic is restricted from all detection and sensing zones.

### Sensor Activation / Presence Detection Safety

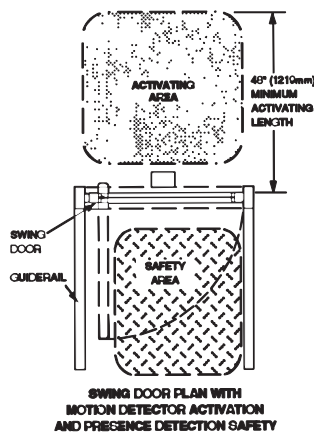


Figure 1

1. Check electronic sensor by walking toward the door opening at a moderate speed. The door should start opening when you are about four feet from the door, should swing open smoothly stop without impact. Move slowly through the door (6 in. per second). The door should remain open.
2. Step out of the sensor zone. After a brief time delay (at least 1 1/2 seconds) the door should close to 10° from fully closed, then noticeably slow down and take at least 1 1/2 seconds for the final 10° closing.
3. Approach the safety side of the door first, then have someone else approach the activating side of the door, as long as you are in the safety area of the door it should not open. (See Figure 1)
4. Crouch motionless in the door opening for at least 4 seconds. The door should not close.

Caution: If safety sensor is not working, door may swing toward you without stopping.

### Floor Mat Activation/Floor Mat Safety

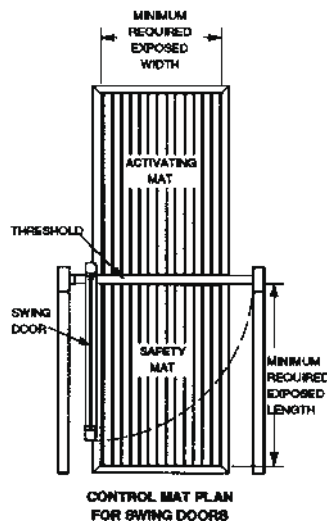


Figure 2

1. Step on the "opening" (activating) mat.
2. It is necessary to have a safety mat covering the entire area the door swings over. Step through the doorway onto the safety mat and remain motionless for 4 seconds. The door should remain open. Repeat at several locations on the mat. (See Figure 2 or 3)
3. Step off the safety mat. After a brief time delay (at least 1 1/2 seconds) the door should close to 10° from fully closed, then slow down. The last 10° of closing should be noticeably slower (at least 1 1/2 seconds).
4. With the door closed, step on the safety mat. Have someone step on the opening mat. Door should remain closed as long as someone remains on the safety mat.

Caution: If safety mat is not working, door may swing toward you

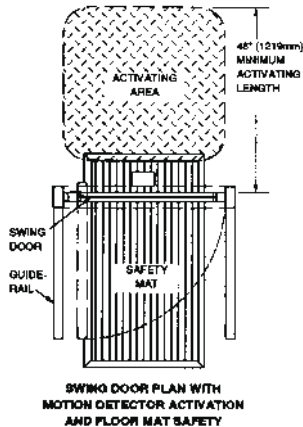


Figure 3



Figure 4



Figure 5



Figure 6

5. Check the mat molding and threshold. It should be completely secured with all required screws.
6. Crouch motionless in the door opening for at least 4 seconds. The door should not close.
7. Do not move heavy objects over floor mats.

### General Safety

1. Breakout Stop. Center pivoted in-swinging doors may be supplied with an emergency breakout stop or switch that will allow the door to open to 90° in the opposite direction of normal traffic. Call your supplier for details.

When the door is pushed into the breakout mode, the electrical power to the operator is removed. Check that door will not activate.

2. Decals. The door should have traffic decals properly displayed as follows:

A. An arrow sign (See Figure 4) shall be visible from the approach side of a swinging door, mounted on the door at a height 58 in.,  $\pm 5$  in. (147 cm,  $\pm 13$  cm) from the floor to the centerline of the sign. The sign shall be minimum of 6 in. (15.2 cm) in diameter, having a green circle surrounding a black arrow on a white background.

B. An international "DO NOT ENTER" sign (See Figure 5) shall be visible from the side that would swing toward pedestrians attempting to travel in the wrong direction. It should be mounted on the door at a height of 58 in.,  $\pm 5$  in. (147 cm,  $\pm 13$  cm) from the floor to the centerline of the sign. The sign shall be minimum of 6 in. (15.2 cm) in diameter, having a red circle with the wording, "Do Not Enter", in white letters in the red circle.

C. Swinging doors serving two-way traffic shall be marked with a decal, visible from both sides of the door, with the words "CAUTION, Automatic Door". (See Figure 6) The words "Automatic Door" must be at least 1/2 in. letters. It should be mounted on the door at a height of 58 in.,  $\pm 5$  in. (147 cm).

**AUTOMATIC DOOR  
ACTIVATE SWITCH  
TO OPERATE**

Figure 7

D. An AAADM safety information sticker should be affixed on the door or frame in a protected, visible location. If you need additional decals for your automatic doors, call your automatic door supplier.

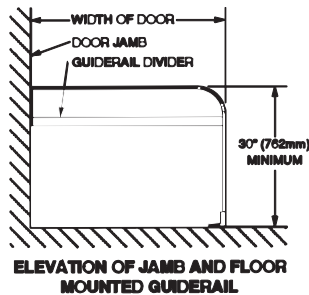


Figure 8

3. Activating Switch. (Knowing Act)

Doors equipped with a manual operate switch shall, when activated, hold the door open for five seconds minimum after release of activating switch. Reactivate door and crouch motionless in door opening for 10 seconds. Door should not close. Doors equipped with a manual activating switch shall have signs as follows: "Automatic Door. Activate Switch to Operate." The sign should be visible from both sides of the door. (See Figure 7)

4. Guide Rails

Check that guide rails or other barriers or separators are present (two per swing door side) and firmly anchored. (See Figures 8, 9, 10)

5. Lock Stile

With door open, grasp lock stile of door and attempt to move vertically and horizontally. There should be no looseness in the door pivots or in connections between door and operator.

6. Housekeeping.

Check the door area for tripping or slipping hazards.

Check all door panels for damage. Make sure that all covers are properly secured. There should be no bulletin boards, literature racks, merchandise displays, or other attractions in the door area that would interfere with the use of the door.

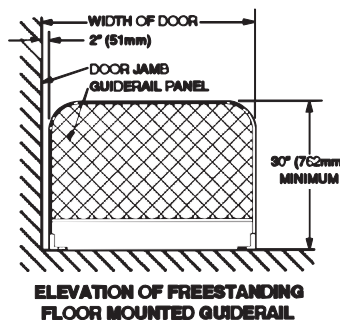


Figure 9

7. Traffic Patterns.

Observe traffic patterns. Plan routing so people enter and exit in a straight approach, directly onto the center of the door opening.

8. Finger Guard

If installed, inspect finger guard to see that it is secure and in good repair. (See Figure 10)

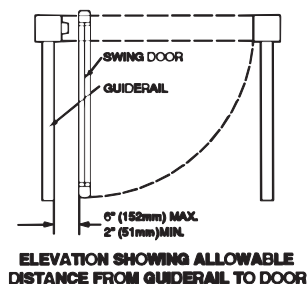


Figure 10

**IF YOU HAVE A PROBLEM, TURN OFF THE DOOR OPERATING EQUIPMENT AND CALL YOUR AUTOMATIC DOOR SUPPLIER.**